

**United States Court of Appeals
for the Federal Circuit**

VIRNETX INC.,
Appellant

v.

**MANGROVE PARTNERS MASTER FUND, LTD.,
APPLE INC.,**
Appellees

**KATHERINE K. VIDAL, UNDER SECRETARY OF
COMMERCE FOR INTELLECTUAL PROPERTY
AND DIRECTOR OF THE UNITED STATES
PATENT AND TRADEMARK OFFICE,**
Intervenor

2020-2271

Appeal from the United States Patent and Trademark
Office, Patent Trial and Appeal Board in Nos. IPR2015-
01046, IPR2016-00062.

VIRNETX INC.,
Appellant

v.

**MANGROVE PARTNERS MASTER FUND, LTD.,
APPLE INC., BLACK SWAMP IP, LLC,**

Appellees

**KATHERINE K. VIDAL, UNDER SECRETARY OF
COMMERCE FOR INTELLECTUAL PROPERTY
AND DIRECTOR OF THE UNITED STATES
PATENT AND TRADEMARK OFFICE,**
Intervenor

2020-2272

Appeal from the United States Patent and Trademark
Office, Patent Trial and Appeal Board in Nos IPR2015-
01047, IPR2016-00063, IPR2016-00167.

JUDGMENT

THIS CAUSE having been considered, it is

ORDERED AND ADJUDGED:

AFFIRMED

FOR THE COURT

March 30, 2023
Date

/s/ Peter R. Marksteiner
Peter R. Marksteiner
Clerk of Court